

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/578,188 Confirmation No. : 8514  
First Named Inventor : Nobuyasu KANEKAWA  
Filed : May 4, 2006  
TC/A.U. : 2616

Docket No. : 056208.57688US  
Customer No. : 23911

Title : Communication System, Real-Time Control Device, and Information Processing System

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.97 AND 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, the attached Form PTO-1449 lists documents which the Examiner may deem relevant to patentability of the claims of the above-identified application.

I. Time Period of Submission

This Information Disclosure Statement is submitted:

1) no later than three months from the application's filing date or 2) before the mailing date of the first Office Action on the merits (whichever is later) or 3) before a first Office Action after the filing of a Request for Continued Examination, and therefore no statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

2) after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action, a Notice of Allowance, or an action closing prosecution (*Ex parte Quayle*), (whichever is earlier), and therefore Applicant is filing concurrently herewith:

- a Statement under 37 C.F.R. § 1.97(e); or
- a fee in the amount of \$180.00 under 37 C.F.R. § 1.17(p).

3) after either a Final Office Action or a Notice of Allowance, but before payment of the Issue Fee, and therefore Applicant is submitting herewith:

a Statement under 37 C.F.R. § 1.97(e); and  
a fee in the amount of \$180.00 under 37 C.F.R. § 1.17(p).

II. Statement Under 37 C.F.R. § 1.97(e)

I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or

I hereby state that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making a reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; or

III. Statement under 37 C.F.R. § 1.704(d)

I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.

IV. Submission of Non-English Language Documents

The following is a concise explanation of relevance of the non-English language documents listed in the attached Form PTO-1449:

The relevance of document(s) \_\_\_\_\_ to the subject matter of the present invention is/are provided in the specification of the above-identified application.

Corresponding foreign or international report(s) citing document(s) \_\_\_\_\_, together with an English-language version(s) (if not already in English) of that portion of the report(s) indicating the degree of relevance found by the foreign office(s) is/are submitted.

English language family member publication(s) of document(s) \_\_\_\_\_ is/are noted on Form PTO-1449.

English language abstract(s) is/are submitted for document(s)  
**AD-AF.**

English translation(s) of the foreign language document(s)  
is/are submitted herewith.

Applicant submits the following explanations:  
\_\_\_\_\_.

V. Continuations/Divisionals

Documents \_\_\_\_\_ were of record in parent application Serial No.  
\_\_\_\_\_, filed \_\_\_\_\_, from which this application claims benefit. As  
provided in 37 C.F.R. §1.98(d), copies of the documents are not being provided  
since they were previously submitted to or cited by the United States Patent and  
Trademark Office in the afore-mentioned parent application.

The submission of the listed documents is not intended as an admission  
that any such document constitutes prior art against the claims of the present  
application. Applicant does not waive any right to take any action that would be  
appropriate to antedate or otherwise remove any listed document as a competent  
reference against the claims of the present application.

If necessary, this paper should be considered as an authorization to charge  
Deposit Account 05-1323, Attorney Docket No.: 056208.57688US, for the fee set  
forth in 37 C.F.R. § 1.17(p).

Respectfully submitted,

September 4, 2007



Stephen W. Palan  
Registration No. 43,420

CROWELL & MORING LLP  
Intellectual Property Group  
P.O. Box 14300  
Washington, DC 20044-4300  
Telephone No.: (202) 624-2500  
Facsimile No.: (202) 628-8844  
SWP:crr  
4046197

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
Sheet	1	of	1	Application Number	10/578,188
				Filing Date	May 4, 2006
				First Named Inventor	Nobuyasu KANEKAWA
				Art Unit	2616
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	056208.57688US

<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
AA	US- 6,230,225	B1	05-08-2001	Olarig et al.		
AB	US- 2002/0188782	A1	12-12-2002	Fay		

<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)					
AC	EP 1 227 381 A1		07-31-2002	Rosemount Inc.			
AD	JP 61-166224		07-26-1986	Sony Corp.		Abstract	
AE	JP 62-122354		06-03-1987	Iwatsu Electric Co. Ltd.		Abstract	
AF	JP 08-223190		08-30-1996	Nippondenso Co. Ltd.		Abstract	

<b>NON PATENT LITERATURE DOCUMENTS</b>						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T <sup>2</sup>
	AG	Data Sheet TLE6230GP, Infineon Technologies AG, Bereichs Kommunikation (28 August, 2000).				
	AH	XILINX: "Cool Runner Serial Peripheral Interface Master", December 13, 2002, XP002342030, retrieved from the Internet on August 26, 2005 at <a href="http://direct.xilinx.com/bvdocs/appnotes/xapp348.pdf">http://direct.xilinx.com/bvdocs/appnotes/xapp348.pdf</a>				
	AI	WETTROTH, J., "Serial-Control Multiplexer Expands SPI Chip Selects", Electronic Design, Penton Media, Cleveland, Ohio, US, Vol. 46, No. 7, March 23, 1998, page 128, 130, XP000780460.				
	AJ	Partial European Search dated June 4, 2007 for 04791937.8.				
	Ak	International Preliminary Report on Patentability for PCT/JP2004/014470 dated July 27, 2006.				

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.